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National Cooperative Dairy Herd Improvement Program

RECORD BOOK

A plan for every size herd

STANDARD DHIA

OWNER'S SAMPLER

WEIGH-A-DAY-A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

AUG 24 1964

Dairy-Herd-Improvement Letter

CURRENT SERIAL RECORDS

ARS-44-144
(Vol. 40, No.4)

May 1964

U.S. ARTIFICIAL INSEMINATION (AI) PARTICIPATION REPORT FOR 1963

A total of 7,673,582 cows were bred artificially in the U.S. in 1963. Dairy to dairy and beef to beef inseminations were in the amount of 6,468,545 and 235,289 cows, respectively. Of the 7,438,293 dairy cows' total, 13.0 percent, or 969,748, represented inseminations of beef bulls.

The AI participation report by State shows that nationally 41.2 percent of all cows and heifers bred for dairy purposes were bred artificially, an estimated 10.7 percent of which were registered. The top 10 States in number and percentage of dairy cows bred artificially by dairy bulls are as follows:

Number of dairy cows bred artificially		Percent of all dairy cows	
1. Wisconsin	1,195,354	1. Alaska	68.6
2. New York	610,432	2. Hawaii	66.3
3. Minnesota	580,563	3. Connecticut	62.9
4. Pennsylvania	529,627	4. Pennsylvania	61.7
5. California	356,365	5. Washington	59.7
6. Michigan	315,842	6. Wisconsin	58.7
7. Ohio	284,142	7. Florida	57.1
8. Iowa	230,729	8. Maine	56.2
9. Illinois	208,213	9. New Hampshire	56.1
10. Indiana	143,845	10. New Jersey	54.9

A total of 2,140 dairy and 398 beef bulls were reported in service as of January 1, 1964. Also reported were inseminations to 620 hogs and 309 goats.

The status of AI in cattle since 1939 shows that an estimated 621,141 dairy herds received AI service in 1963. This is lower than the 862,150 herds reported for 1962 since earlier estimates represented membership enrollment rather than herds serviced. Approximately 50 percent of all dairy herds in the U.S. were serviced entirely or in part by AI. An average of 12 dairy cows per herd serviced were bred artificially.

Because of incomplete reporting, some of the tabular material presented in this report are estimations based on averages from complete reports. The report does not include several strictly beef operations. As a result, beef to beef inseminations in the U.S. were somewhat greater than 235,289.

The accompanying map illustrates AI density in the U.S.

STATUS OF ARTIFICIAL-BREEDING PROGRAM IN THE UNITED STATES 1939-64

Year	Studs	Sires in service			Herds 1/ bulls	Dairy cows bred to dairy bulls		Beef cows bred to beef bulls	Total cattle bred	Cows bred per sire
		No.	No.	Average per stud		No.	No.			
1939	7	-	33	4.7	646	-	-	-	7,359	228
1940	25	-	138	5.5	2,971	-	-	-	33,977	246
1941	35	-	237	6.8	5,997	-	-	-	70,751	299
1942	46	-	412	9.0	12,118	-	-	-	112,788	274
1943	59	-	574	9.7	23,448	-	-	-	182,524	318
1944	56	-	657	11.7	28,627	-	-	-	218,070	332
1945	67	-	729	10.9	43,998	-	-	-	360,732	495
1946	78	-	900	11.5	73,293	-	-	-	537,376	597
1947	84	-	1,453	17.3	140,571	-	-	-	1,184,168	815
1948	91	-	1,745	19.2	224,493	-	-	-	1,713,581	982
1949	90	-	1,940	21.6	316,177	-	-	-	2,091,175	1,078
1950	97	-	2,104	21.7	409,300	-	-	-	2,619,555	1,245
1951	94	-	2,187	23.3	548,300	-	-	-	3,509,573	1,605
1952	94	-	2,324	24.7	671,100	-	-	-	4,295,243	1,848
1953	96	-	2,598	27.1	755,000	-	-	-	4,845,222	1,865
1954	93	-	2,661	28.6	805,000	-	-	-	5,155,240	1,937
1955	79	-	2,450	31.0	845,900	-	-	-	5,413,874	2,210
1956	79	-	2,553	32.3	900,400	-	-	-	5,762,656	2,257
1957	75	-	2,651	35.3	946,000	-	-	-	6,055,982	2,284
1958	71	-	2,676	37.7	975,372	-	-	-	6,645,568	2,483
1959	64	-	2,460	38.4	930,059	-	-	-	6,932,294	2,816
1960	62	-	2,544	41.0	910,000	-	-	-	7,144,679	2,808
1961	56	-	2,486	44.4	863,781	7,047,148	2/435,592	-	7,482,740	3,010
1962	56	2,036	2,456	43.9	862,150	6,837,681	2/911,006	-	7,748,687	3,155
1963	51	2,158	2,559	50.2	621,141	6,468,545	969,748	235,289	7,673,582	2,999
1964	3/50	2,140	2,538	50.8	-	-	-	-	-	-

1/ Prior to 1963, number of herds largely reflected membership rather than those actually serviced.

2/ Probably include some beef to beef inseminations.

3/ Not shown are inseminations to 620 hogs and 309 goats.

STATUS OF ARTIFICIAL-BREEDING PROGRAM
(January 1, 1964)

State	Studs	Cows bred in State during 1963				Milk cows in United States 2/	
		to Dairy sires		to Beef sires		Total	Dairy cows bred
		Registered 1/	Total	Dairy cows	Beef cows		
	Number	Number	Number	Number	Number	Thousands	Percent
Alabama 3/-----	0	7,955	42,832	2,817	1,198	234	19.5
Alaska-----	1	97	1,290	769	200	3	68.6
Arizona 3/-----	0	1,260	15,112	455	54	54	28.8
Arkansas 3/-----	0	3,299	22,527	5,737	1,647	200	14.1
California-----	5	29,969	356,365	17,463	2,892	867	43.1
Colorado-----	1	3,825	40,525	4,071	3,376	114	39.1
Connecticut-----	1	9,423	44,770	8,082	1,432	84	62.9
Delaware 3/-----	0	2,383	8,822	1,326	129	26	39.0
Florida 3/-----	0	8,519	94,443	10,706	1,289	184	57.1
Georgia 3/-----	0	5,538	44,538	2,706	605	212	22.3
Hawaii 3/-----	0	480	9,717	221	58	15	66.3
Idaho 3/-----	0	5,778	89,600	7,047	3,035	215	45.0
Illinois-----	3	36,701	208,213	38,389	17,812	550	44.8
Indiana-----	1	17,803	143,845	13,381	2,601	436	36.1
Iowa-----	1	15,805	230,729	48,468	27,950	844	33.1
Kansas-----	1	9,374	78,193	9,036	7,317	337	25.9
Kentucky-----	1	13,518	101,491	26,685	6,404	528	24.3
Louisiana-----	1	9,650	57,085	5,124	9,412	255	24.4
Maine-----	1	10,252	51,484	5,258	1,845	101	56.2
Maryland-----	1	14,180	96,230	14,885	3,260	226	49.2
Massachusetts 3/--	0	7,869	42,999	7,895	1,399	93	54.7
Michigan-----	1	43,817	315,842	40,063	8,682	687	51.8
Minnesota-----	2	36,803	580,563	58,795	4,136	1,407	45.4
Mississippi-----	1	3,006	45,727	10,218	2,593	322	17.4
Missouri 3/-----	0	17,364	117,438	37,820	5,766	633	24.5
Montana 3/-----	0	622	11,414	8,668	4,217	74	27.1
Nebraska 3/-----	0	6,179	51,927	16,397	10,064	299	22.9
Nevada 3/-----	0	355	4,239	389	579	17	27.2
New Hampshire-----	1	6,728	28,831	3,152	755	57	56.1
New Jersey-----	1	8,787	60,860	7,774	665	125	54.9
New Mexico 3/-----	0	1,241	17,123	1,002	560	43	42.2
New York-----	1	110,036	610,432	90,558	2,222	1,338	52.4
North Carolina-----	1	12,281	80,766	4,995	898	272	31.5
North Dakota 3/-----	0	1,492	30,992	7,365	1,199	276	13.9
Ohio-----	2	51,212	284,142	59,067	19,431	677	50.7
Oklahoma 3/-----	0	3,084	17,236	2,911	793	226	8.9
Oregon-----	1	5,486	61,160	14,914	6,285	156	48.8
Pennsylvania-----	6	104,973	529,627	55,610	8,133	949	61.7
Puerto Rico-----	1	1,843	35,909	-	-	-	-
Rhode Island 3/-----	0	785	4,250	841	134	14	36.4
South Carolina 3/--	0	4,845	26,835	3,279	621	103	29.2
South Dakota 3/-----	0	2,640	27,876	14,675	2,691	251	17.0
Tennessee-----	3	7,463	82,957	18,627	10,581	505	20.1
Texas-----	1	4,441	72,176	11,793	10,193	556	15.1
Utah-----	1	2,548	44,680	4,815	1,383	102	48.5
Vermont 3/-----	0	18,820	113,299	14,362	2,024	276	46.3
Virginia-----	1	16,235	93,641	11,801	1,981	352	30.0
Washington-----	2	12,027	117,054	32,311	12,390	250	59.7
West Virginia 3/--	0	4,800	19,320	968	4,337	122	16.6
Wisconsin-----	6	94,902	1,195,354	199,955	15,481	2,378	58.7
Wyoming 3/-----	0	527	6,065	6,102	2,580	28	43.5
United States-----	50	799,020	6,468,545	969,748	235,289	18,073	41.2

1/ Estimates were made when reports were incomplete.

2/ Statistical Reporting Service estimate of number of cows and heifers 2 years old and over kept for milk.

3/ All semen purchased from studs in other States.

ARTIFICIAL-BREEDING ORGANIZATION BULL STUDS, JANUARY 1, 1964

State, Name, and Location of Studs	Inseminations		Number and breed of bulls used						Herds serviced number	Cows bred 1963		
	Swine	Goats	Ayr-shire	Brown Swiss	Guernsey	Holstein	Jersey	Red Dane	Short-horn	Beef	Dairy total	Beef to beef
ALASKA Matanuska Valley Breeders Assn., Palmer-----	-	-	-	-	3	-	1	-	-	-	1/903	198
CALIFORNIA Adohr Farms Inseminating Service, P. O. Box 88, Camarillo-----	-	-	-	-	10	11	-	-	-	-	8,631	-
Calif. Dairy Breeders, Inc., P.O.Box 188, Davis-----	-	2	-	-	7	15	9	-	-	5	45,017	485
Excelsior Breeding Service, 7401 Adams, Corona--	-	-	-	1	-	15	-	-	-	-	23,533	-
Jessup Breeders, 11630 East Artesia Blvd., Artesia-----	-	69	-	4	10	29	9	-	2	-	1/94,723	661
Pacific Breeders Coop., 1464 Middle Two Rock Road, Petaluma-----	-	-	-	-	6	11	5	-	-	-	28,290	237
COLORADO Colorado State Univ. ABS, 809 City Park Ave., Ft. Collins-----	-	2	-	-	-	2	-	-	1	5	11,324	3,071
CONNECTICUT New England Selective Breeding Assn., Newton Road, Woodbridge-----	-	26	2	4	7	19	10	-	-	-	96,001	3,266
ILLINOIS Curtiss Breeding Service, Inc., Cary-----	-	-	4	3	18	67	13	-	2	50	782,965	21,000
Northern Ill. Breeding Coop., Rt. 1, Hampshire Southern Ill. Breeding Assn., Breese-----	18	5	-	11	13	37	-	-	1	-	81,559	6,277
INDIANA John A. Newman & Sons, Rt. 2, Box 21, Culver 2/-----	-	21	-	-	6	18	3	-	3	-	46,203	10,396
IOWA Eastern Iowa Breeders, Hiawatha-----	-	-	-	-	-	6	-	-	-	-	687	-
KANSAS Kansas Artificial Breeding Service Unit, Kansas State Univ., Manhattan--	-	-	2	9	8	26	2	-	3	-	105,301	15,922
KENTUCKY Ky. Artificial Breeding Assn., 1930 Herr Lane, Louisville-----	-	5	4	5	4	24	4	-	4	19	36,512	6,460
LOUISIANA La. Artificial Breeding Coop., Inc., Box B. D., LSU, Baton Rouge-----	-	2	-	5	8	16	10	-	-	12	1/71,552	5,768
	-	1	-	-	6	9	6	-	-	12	52,016	9,277

1/ Data may be all or partially estimated when incomplete report was given.
 2/ Based on last report available, (1-1-63).

State, Name, and Location of Studs	Inseminations		Number and breed of bulls used										Herds serviced number	Cows bred 1963			Total
	Swine	Goats	Ayr-shire	Brown Swiss	Guernsey	Holstein	Jersey	Red Dane	Short horn	Beef	Total	Dairy total		Dairy to beef	Beef to beef		
MAINE Maine Breeding Coop., Inc., RFD 1, Augusta----	-	-	1	-	11	15	12	-	5	4	48	4,500		45,566	3,942	1,689	51,197
MARYLAND Maryland-West Virginia Bull Stud, Inc., P. O. Box 555, Frederick-----	-	30	5	5	8	19	6	-	-	7	50	13,400		94,727	12,025	7,166	113,918
MICHIGAN Mich. ABC, Inc., P. O. Box 511, East Lansing----	-	19	3	5	12	37	9	3	4	15	88	19,959		1/228,814	1/28,670	7,530	265,014
MINNESOTA Midwest Genes, Inc., Box 111, Anoka-----	-	-	-	8	19	90	6	-	9	-	132	63,668		1/376,449	1/56,962	20,979	454,390
Minn. Valley Breeders Assn., New Prague-----	-	-	3	3	15	70	3	-	4	26	124	32,961		253,455	52,985	2,789	309,229
MISSISSIPPI Mississippi ABC, State College-----	-	4	-	-	4	5	9	-	-	2	1/20	2,572		1/22,499	1/6,613	1,753	30,865
NEW HAMPSHIRE New Hampshire-Vermont Breeding Assn., Box 350, Concord-----	-	-	2	-	8	14	10	-	-	4	38	5,156		1/53,095	1/5,488	1,441	60,024
NEW JERSEY New Jersey Coop. Breeders Assn., Annandale 08801--	-	16	-	2	9	17	3	-	-	2	33	2,125		41,530	6,336	500	48,366
NEW YORK New York ABC, Inc., Judd Falls Rd., Ithaca--	-	-	13	15	23	94	29	-	-	15	189	28,947		477,759	74,100	-	551,859
NORTH CAROLINA N. C. Institutional Breeding Assn., Dept. Animal Science, N. C. State College, Raleigh 2/	-	-	-	-	-	13	-	-	-	-	13	10		1/1,132	1/182	48	1,362
OHIO Central Ohio Breeding Assn., 1224 Alton-Darby Rd., Columbus 43204----	-	39	7	4	17	35	10	-	-	-	73	36,802		1/193,241	1/40,102	24,703	258,046
NOBA, Inc., Box 1015, Tiffin-----	-	16	-	3	11	30	16	-	1	19	80	20,490		178,832	34,858	8,237	221,927
OREGON Oregon Breeders Assn., P.O. Box 48, Corvallis--	-	9	-	-	12	11	11	-	-	5	39	7,700		27,291	12,182	5,653	45,126
PENNSYLVANIA First Pa. ABC, Lewisburg-Lehigh Valley Coop. Farmers, Rt.1, Allentown--	-	-	-	-	7	19	-	-	-	10	36	5,900		55,540	2,908	15	58,463
	-	-	4	1	6	19	2	-	-	2	34	1,975		1/26,485	1/3,818	1,003	31,306

1/ Data may be all or partially estimated when incomplete report was given.

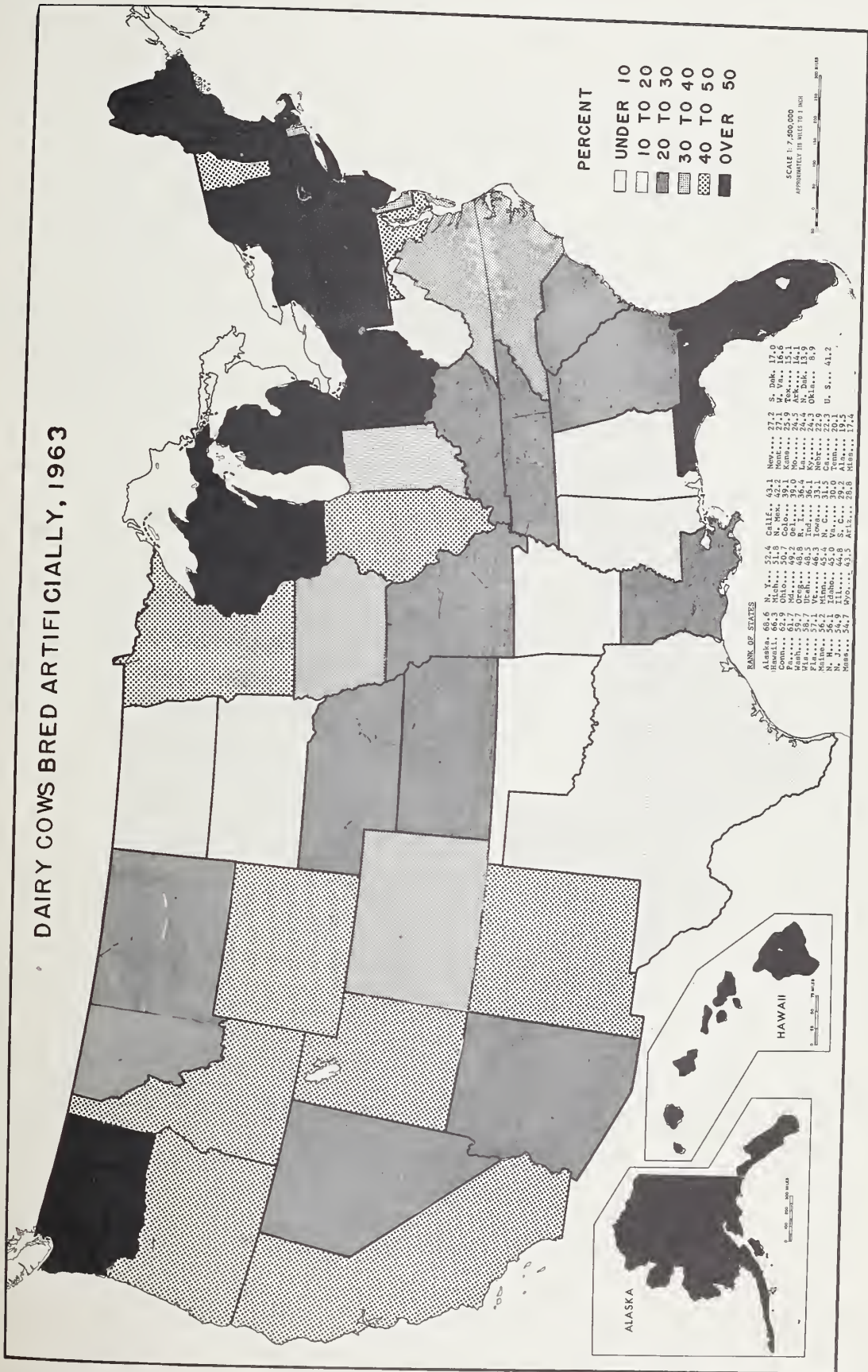
2/ Based on last report available, (1-1-63).

State, Name, and Location of Studs	Inseminations		Number and breed of bulls used							Herds serviced number	Dairy total	Cows bred 1963		Total		
	Swine	Goats	Ayr-shire	Brown shire	Guernsey	Holstein	Jersey	Red Dane	Short-horn			Beef	Total		Dairy to beef	Beef to beef
PENNSYLVANIA (Con't.)																
NEPA ABC, P. O. Box 26, Tunkhannock-----	-	-	5	-	7	22	8	-	-	6	48	7,000	92,254	15,563	-	107,817
Southeastern Pa. ABC, Box 254, Lancaster-----	-	33	4	-	9	21	4	-	-	12	50	9,016	124,236	15,852	1,404	141,492
Western Pa. ABC, Box 550, Clarion-----	-	-	4	7	18	28	10	-	-	6	73	14,262	128,250	2,100	3,931	134,281
Zimmerman Dairy Farm, Lehighton-----	-	-	-	-	-	6	-	-	-	-	1/6	167	2,000	-	-	2,000
PUERTO RICO																
Puerto Rico Artificial Breeding Assn., P. O. Box 958, Dorado 2/-----	-	-	-	4	-	11	-	-	-	2	17	931	17,776	-	-	17,776
TENNESSEE																
East Tennessee ABA, Rt. 10., Knoxville-----	-	-	3	2	9	12	9	-	1	8	44	4,170	26,939	7,029	3,423	37,391
Tennessee Artificial Breeding Association, Brentwood-----	-	-	-	2	7	6	9	-	-	5	1/29	2,919	24,880	6,832	3,319	35,031
West Tennessee Artificial Breeding Assn.,Yorkville	-	-	-	-	-	7	5	-	-	6	18	2,019	7,078	665	3,420	11,163
TEXAS																
Texas A & M Dairy Breeding Center, College Station-----	-	-	-	-	-	1	-	-	-	10	11	2	777	-	-	777
UTAH																
Cache Valley Breeding Assn., 1950 N. Main, Logan 84321-----	-	-	3	3	3	20	3	-	4	19	55	8,125	61,674	8,973	7,312	77,959
VIRGINIA																
Va. ABA, Inc., P. O. Box 391, Rocky Mount-----	-	10	4	-	7	15	5	-	-	7	38	6,205	55,601	8,063	1,451	65,115
WASHINGTON																
W. De Jong's Supreme Bull Service, Rt. 1.,Monroe 2/Evergreen Northwest	-	-	-	-	-	3	-	-	-	1	4	60	1/1,455	1/436	114	2,005
Breeders, Inc., P. O. Box 197, Burlington-----	-	-	1	2	12	20	12	-	3	15	65	17,096	73,421	25,892	11,072	110,385
WISCONSIN																
American Breeders Service, Madison-----	-	-	3	4	12	54	13	-	4	54	1/44	125,056	1,398,853	1/80,640	21,180	1,500,673
Associated Breeding Service, Lena-----	-	-	4	-	4	9	-	-	-	-	17	2,000	18,387	3,480	243	22,110
Badger Breeders Coop., Shawano-----	-	-	-	6	17	31	6	-	-	8	68	22,265	343,465	60,817	3,994	408,276
E. Central Breeders Assn. Coop., Waupun-----	-	-	-	5	5	23	-	-	-	6	39	6,000	72,009	17,230	100	89,339
Piper Bros. Farms, Inc., Watertown-----	-	-	-	1	4	26	-	-	-	-	31	4,127	91,672	19,618	2,300	113,590
Tri-State Breeders Coop., Westby-----	602	-	-	10	20	65	9	-	5	19	128	24,214	366,186	71,579	5,502	443,267
UNITED STATES-----	620	309	81	134	399	1,176	290	4	56	398	2,538	621,141	6,468,545	969,748	235,289	7,673,582

1/ Data may be all or partially estimated when incomplete report was given.

2/ Based on last report available, (1-1-63).

DAIRY COWS BRED ARTIFICIALLY, 1963



EXTENSION SERVICE OFFICIALS WORKING WITH DAIRY BREEDING ORGANIZATIONS IN THE STATES

Ala-----R. Sam Jones, Jr., Extension Service, Auburn University, Auburn.
 Alaska---W. J. Sweetman, Dairy Husbandman, University of Alaska, Palmer.
 Ariz-----W. R. Van Sant, Extension Service, University of Arizona, Tucson.
 Ark-----James B. Ragland, Extension Service, University of Arkansas, Little Rock.
 Calif-----R. D. Appleman, Extension Service, University of California, Davis.
 Colo-----D. C. Jordan, Extension Service, Colorado State University, Ft. Collins.
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 Del-----W. R. Hesseltine, Extension Service, University of Delaware, Newark.
 Fla-----C. W. Reaves, Extension Service, University of Florida, Gainesville.
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 N. Y-----Raymond Albrechtsen, Extension Service, Cornell University, Ithaca.
 N. C-----F. D. Sargent, Extension Service, N. C. State College of Agriculture, Raleigh.
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 Oreg-----H. P. Ewalt, Extension Service, Oregon State University, Corvallis.
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 P. R-----Cesar A. Calderon, Extension Service, University of Puerto Rico, Rio Piedras.
 R. I-----J. W. Atwood, Extension Service, University of Rhode Island, Kingston.
 S. C-----C. H. Lomas, Extension Service, Clemson Agricultural College, Clemson.
 S. Dak---Ervin Kurtz, Extension Service, S. Dak. State College of Agri., Brookings.
 Tenn-----C. K. Chappell, Extension Service, P. O. Box 1071, University of Tennessee,
 Knoxville.
 Texas----A. M. Meekma, Extension Service, Texas A & M College, College Station.
 Utah-----J. J. Barnard, Extension Service, Utah State University, Logan.
 Vt-----W. A. Dodge, Extension Service, University of Vermont, Burlington.
 Va-----V. L. Baldwin, Extension Division, Virginia Polytechnic Institute,
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 Wash-----Bill F. Kelso, Extension Service, Washington State University, Pullman.
 W. Va-----W. L. Northern, Extension Service, West Virginia University, Morgantown.
 Wis-----G. M. Werner, Extension Service, University of Wisconsin, Madison 6.
 Wyo-----I. W. Slater, Extension Division, University of Wyoming, Laramie.